

AN - 2004-217979 [21]  
 AP - JP20020112223 20020415  
 CPY - MITU  
 DC - A17 A84 A97 P73  
 FS - CPI;GMPI  
 IC - B32B27/32 ; C08J9/06 ; C08L23/08  
 MC - A02-A06E A04-G01B A04-G06A A07-A02 A08-A06 A08-B01 A08-R07 A12-S04A2  
 PA - (MITU ) MITSUBISHI KASEI VINYL KK  
 PN - JP2003306568 A 20031031 DW200421 C08J9/06 008pp  
 PR - JP20020112223 20020415  
 XA - C2004-086815  
 XIC - B32B-027/32 ; C08J-009/06 ; C08L-023/08  
 XP - N2004-172496

AB - JP2003306568 NOVELTY - Polyolefin type resin composition contains (in weight parts (wt.pts)) (a) ethylene- alpha -olefin copolymers (100-70) obtained using metallocene catalyst, (b) olefin-type elastomers (0-30), and (c) wood meal (5-70) having average particle diameter of 200-10000, foaming agent (0.5-10) and antioxidant (0.1-10). The amount of (c) component is calculated with respect to 100 wt.pts of total amount of (a) and (b) components.

- DETAILED DESCRIPTION - Polyolefin type resin composition contains (in weight parts (wt.pts)) (a) ethylene- alpha -olefin copolymers (100-70), (b) olefin-type elastomers (0-30), and (c) wood meal having average particle diameter of 200-10000, foaming agent (0.5-10) and antioxidant (0.1-10). 5-70 wt.pts of (c) component is contained with respect to 100 wt.pts of total amount of (a) and (b) components. The (a) component, which is a copolymer of ethylene and 3-12C alpha -olefin is polymerized and obtained by using metallocene catalyst. The (a) component has density of 0.86-0.92 g/cm<sup>3</sup>, melt flow rate of 0.5-40 g/10 minute and ratio (Mw/Mn) of weight average molecular weight (Mw) and number average molecular weight (Mn) of 1.5-5. INDEPENDENT CLAIMS are also included for the following:

- (1) foaming sheet;
- (2) laminated object; and
- (3) notice-plate surface material containing the laminated object.
- USE - In foaming sheet for laminated object of notice-plate surface material (claimed). The foaming sheet is also used as interior material of building.
- ADVANTAGE - The molded product has excellent surface property (i.e. non-sticky surface property and traces of pin hole are not conspicuous), mold-ability and excellent physical properties (e.g. tension and design properties) during molding process.
- (Dwg.0/0)

IW - POLYOLEFIN RESIN COMPOSITION FOAM SHEET LAMINATE OBJECT NOTICE PLATE  
 SURFACE MATERIAL CONTAIN PRESET AMOUNT ETHYLENE ALPHA OLEFIN  
 COPOLYMER

OLEFIN ELASTOMER WOOD MEAL FOAM AGENT ANTIOXIDANT

IKW - POLYOLEFIN RESIN COMPOSITION FOAM SHEET LAMINATE OBJECT NOTICE PLATE  
 SURFACE MATERIAL CONTAIN PRESET AMOUNT ETHYLENE ALPHA OLEFIN

COPOLYMER

OLEFIN ELASTOMER WOOD MEAL FOAM AGENT ANTIOXIDANT

NC - 001

OPD - 2002-04-15

ORD - 2003-10-31

PAW - (MITU ) MITSUBISHI KASEI VINYL KK

(C) WPI/Derwent

**TI - Polyolefin resin composition for use in foaming sheet for laminated object of notice-plate surface material, contains preset amount of ethylene-alpha-olefin copolymers, olefin-elastomers, wood meal, foaming agent and antioxidant**

**A01 - [001] 2004 ; G0033-R G0022 D01 D02 D51 D53 ; H0000 ; H0011-R ; H0124-R ; S9999 S1309-R ; P1150**

**- [002] 2004 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ; R00964 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; H0022 H0011 ; H0124-R ; S9999 S1309-R ; P1150 ; P1285 ; P1296**

**- [003] 2004 ; ND04 ; N9999 N6086 ; Q9999 Q7818-R ; Q9999 Q6826-R ; B9999 B5276-R ; B9999 B3623 B3554 ; B9999 B3612 B3554 ; K9745-R ; K9449**

**- [004] 2004 ; G3429 D01 ; A999 A237 ; S9999 S1456-R ; B9999 B5209 B5185 B4740**

**- [005] 2004 ; A999 A260-R**

**- [006] 2004 ; A999 A497 A486**

**A02 - [001] 2004 ; G0033-R G0022 D01 D02 D51 D53 D58 D83 D84 D85 D86 D87 D88 D89 D90 D91 D92 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ; H0022 H0011 ; S9999 S1309-R ; P1150**

**- [002] 2004 ; ND04 ; N9999 N6086 ; Q9999 Q7818-R ; Q9999 Q6826-R ; B9999 B5276-R ; B9999 B3623 B3554 ; B9999 B3612 B3554 ; K9745-R ; K9449**

**- [003] 2004 ; B9999 B3601 B3554 ; B9999 B5107-R B4977 B4740 ; B9999 B4831-R B4740 ; B9999 B5243-R B4740**

**- [004] 2004 ; D62-R D61 D68 Tr-R ; C999 C033 C000 ; C999 C293**

Best Available Copy